

THIS OPINION WAS NOT WRITTEN FOR PUBLICATION

The opinion in support of the decision being entered today (1) was not written for publication in a law journal and (2) is not binding precedent of the Board.

Paper No. 27

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES

Ex parte JAN HRUSKA and PETER LAMMER

Appeal No. 1997-2158
Application No. 08/234,239

HEARD: February 8, 2000

Before BARRETT, FLEMING, and BARRY, Administrative Patent Judges.

BARRY, Administrative Patent Judge.

DECISION ON APPEAL

This is a decision on the appeal under 35 U.S.C. § 134 from the final rejection of claims 1, 4-9, and 12-16. We reverse.

BACKGROUND

The invention at issue in this appeal relates to validity checking in a computer network. Validity checking examines data from a computer program to learn if unwanted instructions are present. Such checking may detect a computer virus before it is executed.

In a computer network, each workstation may include its own validity checking software. Upon boot-up, each workstation runs its software to check for instructions indicative of a virus. Such an arrangement occupies memory space in each workstation. Updating validity checking program files and data files is laborious, moreover, because each workstation must be updated.

The invention employs networked workstations and a server to conduct validity checking without the aforementioned memory capacity and updating problems. Specifically, one of the workstations copies a computer program that requires checking to the server. The server runs software to check for instructions indicative of a virus and reports the results of

the check to the workstation. Under this arrangement, validity checking software need only be stored on the server. Updating of validity checking program files and data files, moreover, need only be done to the server.

Claim 1, which is representative for our purposes, follows:

Claim 1. A method for checking the validity of an item of data stored for access by a first data processor of a data processing network comprising at least two interconnected data processors, the method comprising the steps of:

storing for access by a second data processor a plurality of definitions of forms of data indicative of invalidity of items of data;

causing the first data processor to provide the second data processor with a copy of the item of data;

determining, using the second data processor, whether any of the stored forms of data are present in the item of data and declaring the item of data invalid if any of the stored forms of data are present in the item of data;

reporting to the first data processor on the validity of the item of data; and

causing the first data processor to prevent access to the item of data if the item of data is declared as invalid.

The references relied on in rejecting the claims follow:

Francisco	4,845,715	Jul. 4, 1989
Griswold et al. 1993. (Griswold)	WO#93/01550	Jan. 21,

(Published PCT Application)

Claims 1, 4-9, and 12-16 stand rejected under 35 U.S.C. § 103 as obvious over Francisco in view of Griswold. Rather than repeat the arguments of the appellants or examiner in toto, we refer the reader to the briefs and answers for the respective details thereof.

OPINION

In reaching our decision in this appeal, we considered the subject matter on appeal and the rejection advanced by the examiner. Furthermore, we duly considered the arguments and evidence of the appellants and examiner. After considering the totality of the record, we are persuaded that the examiner erred in rejecting claims 1, 4-9, and 12-16. Accordingly, we reverse.

We begin by noting the following principles from In re Rijckaert, 9 F.3d 1531, 1532, 28 USPQ2d 1955, 1956 (Fed. Cir. 1993).

In rejecting claims under 35 U.S.C. Section 103, the examiner bears the initial burden of presenting a prima facie case of obviousness. In re Oetiker, 977 F.2d 1443, 1445, 24 USPQ2d 1443, 1444 (Fed. Cir. 1992). Only if that burden is met, does the burden of coming forward with evidence or argument shift to the applicant. Id. "A prima facie case of obviousness is established when the teachings from the prior art itself would appear to have suggested the claimed subject matter to a person of ordinary skill in the art." In re Bell, 991 F.2d 781, 782, 26 USPQ2d 1529, 1531 (Fed. Cir. 1993) (quoting In re Rinehart, 531 F.2d 1048, 1051, 189 USPQ 143, 147 (CCPA 1976)). If the examiner fails to establish a prima facie case, the rejection is improper and will be overturned. In re Fine, 837 F.2d 1071, 1074, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988).

With these in mind, we analyze the appellants' arguments.

The appellants' argument follows.

Virus instructions, such as "Jump" instructions, page 7, line 15 et seq., are exemplary forms of data indicative of invalidity that can appear within multiple unrelated programs and data files, and bear no relationship to Francisco's unique EIDs that are separate from and uniquely associated with a single program. For this reason, the Examiner's interpretation of the claimed "forms of data indicative of invalidity" is also expressly contrary to the definition provided in the instant

specification. (Reply Br. Addressing Supp.
Examiner's Answer at 4.)

The examiner replies, "The determination of the electronic indicia is a determination of what is 'in' the program. The comparison of the indicia indicates a form of data that is invalid." (Supplemental Examiner's Answer at 2.) We agree with the appellants.

"Claims are not interpreted in a vacuum, but are part of and are read in light of the specification." Slimfold Mfg. Co. v. Kinkead Indus., Inc., 810 F.2d 1113, 1116, 1 USPQ2d 1563, 1566 (Fed. Cir. 1987) (citing Hybritech Inc. v. Monoclonal Anti-bodies, Inc., 802 F.2d 1367, 1385, 231 USPQ 81, 94-95 (Fed. Cir. 1986); In re Mattison, 509 F.2d 563, 565, 184 USPQ 484, 486 (CCPA 1975)). Here, claims 1 and 4-8 each specifies in pertinent part the following limitations:

storing for access ... a plurality of
definitions of forms of data indicative of
invalidity of items of data;

...

determining ... whether any of the stored forms
of data are present in the item of data and
declaring the item of data invalid if any of the
stored forms of data are present in the item of data

....

Similarly, claims 9 and 12-16 each specifies in pertinent part the following limitations:

storage means ... for storing a set of information defining data of a plurality of characteristic forms that are indicative of invalidity;

means ... for testing for the presence of data of any of the characteristic forms, in the item of data, and generating a validity signal indicative of whether data of any of the characteristic forms has been detected in the item of data

The appellants' specification defines the limitations as follows.

Information defining the characteristic forms of data indicative of the file's validity or invalidity is stored at the file server. These characteristic forms may indicate whether the file contains unwanted data, such as a virus, or whether it has been authorized for or barred from use. For a virus, for example, the characteristics may indicate the form of data characteristic of the virus such as instructions found at the start of the file (typically "jump" instructions) or elsewhere in the file, which for some viruses may appear in any sequence. (Spec. at 7-8.)

Reading the claims in light of the specification, we interpret the limitations as reciting the testing of a computer program or file for the presence of instructions that are characteristic of a computer virus such as jump instructions.

The examiner fails to show a teaching or suggestion of the limitations in the prior art. Francisco's electronic indicia, on which the examiner relies, are not instructions at all. Each electronic index is a numeral that is "uniquely characteristic of the total number of binary 1's and binary 0's of a software program" Francisco, abs., ll. 4-5. Moreover, the indicia do not indicate the invalidity of data. The examiner admits, "Francisco does not store forms of data which are indicative of invalidity of data." (Final Rejection at 2.) Rather than indicating the invalidity of data, the electronic indicia "uniquely and selectively identif[y] the submitted program." Col. 2, ll. 28-29.

Furthermore, the reference does not test a computer program or file for the presence of the electronic indicia let alone for the presence of instructions that are characteristic of a computer virus. The examiner admits that Francisco instead performs "comparison of the indicia" (Supplemental Examiner's Answer at 2.) More specifically, Francisco compares "first and second electronic identification

indicia 12 and 34 for the selected Program S" Col. 3,
11. 1-9. Griswold does not cure the defects of Francisco.

For the foregoing reasons, we are not persuaded that the prior art would have suggested the limitation of testing a computer program or file for the presence of instructions that are characteristic of a computer virus such as jump instructions as claimed. The examiner has not established a prima facie case of obviousness. Therefore, we reverse the rejection of claims 1, 4-9, and 12-16 under 35 U.S.C. § 103.

CONCLUSION

To summarize, the examiner's rejection of claims 1, 4-9,
and 12-16 under 35 U.S.C. § 103 is reversed.

REVERSED

LEE E. BARRETT)	
Administrative Patent Judge)	
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)	BOARD OF PATENT
MICHAEL R. FLEMING)	APPEALS
Administrative Patent Judge)	AND
)	INTERFERENCES
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LANCE LEONARD BARRY)	
Administrative Patent Judge)	

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LLB/kis
GREER, BURNS & CRAIN, LTD.
233 South Wacker Drive
Suite 8660, Sears Tower
Chicago, IL 60606

